

35. The high phase order induction machine drive system of claim 34 wherein said at least two winding terminals comprise two winding terminals.
36. The high phase order induction machine drive system of claim 35 wherein said inverter system comprises half bridge output stages.
37. The high phase order induction machine drive system of claim 35 wherein said motor is wound with full span concentrated windings.
38. The high phase order induction machine drive system of claim 37 wherein said inverter system comprises half bridge output stages.
39. The high phase order induction machine drive system of claim 35 wherein said mesh connection having the highest possible skip number between inverter terminals.
40. The high phase order induction machine drive system of claim 35 wherein said two winding terminals of each of said phases are driven by the inverter system with a phase angle difference of close to but not exactly 120 electrical degrees when said inverter system is synthesizing output of fundamental phase relation.
41. The high phase order induction machine drive system of claim 35 wherein said motor comprising N phases where N is either a multiple of 3 or not, and wherein if N is a multiple of 3, said mesh connection being arranged with a skip number of  $N/3$ , and wherein if N is not a multiple of 3, said mesh connection being arranged with a skip number of  $(N/3)-1$  rounded to the nearest integer.
42. The high phase order induction machine drive system of claim 41 wherein said variable electrical phase angle comprising the selectable synthesis between current with fundamental phase relation and current with fundamental phase relation multiplied by three.
43. The high phase order induction machine drive system of claim 41 wherein said variable electrical phase comprising a variable proportion of current with fundamental phase relation and current with third harmonic phase relation.